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United States Government **Department of Energy**

Bonneville Power Administration

memorandum

DATE: June 19, 2001

REPLY TO ATTN OF: KEP-4

SUBJECT: Supplement Analysis for the Transmission System Vegetation Management Program FEIS (DOE/EIS-0285/SA-15)

TO: Jim Jellison – TFO/Olympia
Natural Resource Specialist

Proposed Action: Vegetation management on selected sections of ROWs in the Ross-St. John and Ross-Carborundum transmission line ROWs. The ROWs include sections of the Ross-St. John 230Kv line; the Ross-Rivergate 230Kv line; the Ross-Alcoa 115Kv line; the Ross-Carborundum 115Kv line and the Clark PUD 115Kv line.

Location: The ROWs span sections of Vancouver Washington and Portland Oregon and are all located in the Olympia Region.

Proposed by: Bonneville Power Administration (BPA).

Description of the Proposed Action: BPA proposes to clear unwanted vegetation in the rights-of-ways and around tower structures that may impede the operation and maintenance of the subject transmission lines. Work also includes clearing of a small (<1/4 mile) section of access road. All work will be in accordance with the National Electrical Safety Code and BPA standards. See Section 1.1 of the attached checklist for detailed information on each section of the referenced transmission lines. BPA will conduct the vegetation control with the goal of removing tall-growing vegetation that is currently or will soon be a hazard to the transmission lines and where possible to promote low-growing plant communities in the right-of-way.

Analysis: This project meets the standards and guidelines for the Transmission System Vegetation Management Program Final Environmental Impact Statement (FEIS) and Record of Decision (ROD).

Planning Steps

1. Identify facility and the vegetation management need.

The vegetation needing control is mainly Douglas Fir, Alder, and blackberries as indicated in Section 1.2 of the attached checklist.

The work involved in the ROW includes: clearing tall growing vegetation that is currently or will soon pose a hazard to the lines; treating the associated stumps and re-sprouts with herbicide to ensure that the roots are killed preventing new sprouts; and selectively eliminating tall growing vegetation before it reaches a height or density to begin competing with low-growing vegetation. All work will take place in existing rights-of-ways and around transmission structures. All work

will be accomplished by selective vegetation control methods to assure that there is little potential harm to non-target vegetation and to low-growing plants. The work will provide system reliability and fire protection. Also, all off right-of-way trees that are potentially unstable and will fall within a minimum distance or into the zone where the conductors swing will be removed. Access roads will be treated using mowing and herbicide applications. The work will provide system reliability.

The subject transmission lines range from 115kV to 230kV and are made up of accompanying access roads, steel and wooden transmission line structures and associated switching platforms. The minimum clearance ranges from 21 feet for 115kV lines to 23 feet for 230kV lines. ROW easement widths vary along the length of the project. Vegetation control for this project is designed to provide a 3 year maintenance free interval.

In summary, the overall vegetation management scheme will be to selectively remove tall growing vegetation then apply selective herbicide treatment using cut stump applications.

2. Identify surrounding land use and landowners/managers.

The subject corridors traverse residential and urban lands as well as lands owned by the Cities of Vancouver and Portland. They are either all fee-owned, all easement or a combination of the two. Surrounding landowners and land managers were all contacted by mail and informed of the planned project. Those landowners with vegetation management agreements in place have also been contacted regarding their responsibilities for compliance with their agreements.

Other potentially affected agencies include the Grand Ronde Tribe because a portion of this project traverses ceded lands. The Tribe was contacted and there are no special concerns that affect the project. Coordination with the City of Portland has occurred regarding control of Canary Grass around the banks of Bybee and Smith Lake.

3. Identify natural resources.

There are three water resources that the project has the potential to affect. They include Cold Creek, Burnt Bridge Creek and Smith/Bybee Lake. Mitigation measures include the use of buffers as follows: No application of herbicides within 100 feet of any water body; between 100 to 200 feet of the water body “Accord” brand herbicide will be applied; further than 200 feet from water bodies “Garlon 4” brand herbicide will be applied. Herbicides will only be applied to cut stumps. The herbicides and buffer zones proposed for use for vegetation management on this project are consistent with what is specified in the Vegetation Management EIS. Section 3.1 of the attached checklist specifies herbicides, methods, application techniques and buffers used for particular instances of application.

Anadromous and resident fish species are present in the watersheds affected by this project. Avoidance/mitigation methods include maintenance of 50 to 100 foot shade/silt buffers along creek and lake banks; selective cutting of only tall vegetation that would affect the transmission system; and no herbicide applicationwithin 100 feet of any water body.

Habitat for the Western Painted Turtle, a State of Oregon listed Sensitive Species, is located along one reach of the project. Herbicide application in this reach will be prohibited.

No other T&E/wildlife issues, visually sensitive areas, cultural resources or other natural resource issues have been identified along the other work corridors.

4. Determine vegetation control and debris disposal methods.

A licensed contractor will undertake the proposed work. The contractor will receive a list of required mitigation measures (management prescriptions) to follow that will identify potential sensitive resouce areas as well as a set of maps delineating the transmission line.

The unwanted vegetation will be removed by employing manual (hand cutting), mechanical and herbicide application methods. Chemical means will be employed to prevent resprouts of broad leaf species. Herbicides used will be applied by licensed applicators following manufacturers' label instructions and BPA's management prescriptions consistent with the guidance outlined in the Vegetation Management EIS. Debris disposal methods will be by lop and scatter and mulching. Chipping will be done where needed. Section 4.1 of the attached checklist lists the proposed herbicides, methods of application, application techniques and buffers to be used.

5. Determine revegetation methods, if necessary.

No re-vegetation will be conducted at this time.

6. Determine monitoring needs.

An inspector will monitor the work being performed at the time of the initial work. A follow-up inspection will also be performed within one year to evaluate the effectiveness of the herbicide treatment on the target species.

7. Prepare appropriate environmental documentation.

This Supplement Analysis finds that 1) the proposed actions are substantially consistent with the Transmission System Vegetation Management Program FEIS (DOE/EIS-0285) and ROD, and; 2) there are no new circumstances or information relevant to environmental concerns and bearing on the proposed actions or their impacts. Therefore, no further NEPA documentation is required.

/s/ Joseph C. Sharpe for
Elaine Stratton
Environmental Protection Specialist - KEP

CONCUR: */s/ Thomas C. McKinney* DATE: 6/22/01
Thomas C. McKinney
NEPA Compliance Officer

Vegetation Management Checklist

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe Right-of-way.

Corridor Name	Corridor Length & kV	Easement width	Miles of Treatment
Ross-St. John Corr.	Ross to 8/1; 115 to 230Kv	Varible:125 to 275	5
Ross-Carborundum Corr.	Ross to 2/4 115 to 230Kv	182.5	1

See Handbook — **List of Right-of-way Components** for checkboxes and the requirements for the components **Rights-of-way**, **Access Roads**, **Switch Platforms**, **Danger Trees**, and **Microwave Beam paths**.

Right Of Way:
Right-of-Way – clearing in right-of-way
Transmission Structures – clearing around
Access Road clearing - approximate miles – ¼ mile.
Reclaim ("C") Trees

1.2 Describe the vegetation needing management.

See handbook — **List of Vegetation Types**, **Density**, **Noxious Weeds** for checkboxes and requirements.

Vegetation Types:
Douglas Fir
Alder
Blackberries

Density:
Medium (50 – 250 stems/per acre)

1.3 List measures you will take to help promote low-growing plant communities. If promoting low-growing plants is not appropriate for this project, explain why. See Handbook — for requirements and checkboxes.

Tall-growing vegetation that is currently or will soon be a hazard to the line will be removed. (In places where tall growing vegetation must be left in place, it may not be possible to promote low-growing plants.)

Cut-stump or follow-up herbicide treatments on resprouting-type species will be carried out to ensure that the roots are killed.

Vegetation that will grow tall will be selectively eliminated *before* it reaches a height or density to begin competing with low-growing species.

1.4 Describe overall management scheme/schedule.
See Handbook - **Overall Management Scheme/Schedule**.

Initial entry – C,L&S or C&C and stump treat all freshly cut stumps within 15 min.

Subsequent entries – Follow up treatment on the 3rd year.

Future cycles – Cutting cycle 3 yr. interval

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses along your corridor.
See Handbook — **Landowners/Managers/Uses** for requirements, and **List of Landowners/Managers/Uses** for a checkbox list.

Landowners/Managers/Uses:
Residential
Urban
State/City/County Lands
City of Portland
City of Vancouver

Describe method for notifying right-of-way landowners and requesting information (i.e., doorhanger, letter, phone call, e-mail, and/or meeting). Develop landowner mail list, if appropriate.
See Handbook — **Methods for Notification and Requesting Information** for requirements.

Olympia Region had send out letters to property owners that are noted on the land owner data base.

2.3 List the specific land owner/landuse measures — determined from the handbook or through your consultations with the entities — that will be applied.
See handbook — **Requirements and Guidance for Various Landowners/Uses** for requirements and guidance, also **Residential/Commercial**, **Agricultural**, **Tribal Reservations**, **FS-managed lands**, **BLM –managed lands**, **Other federal lands**, **State/ Local Lands.**.

Residential/Comercial:

The following landowners have responsibility for vegetation maintenance.

Span		Landowner	Agreement ID number (?)
To	From		
2/2	2/2	Leo Powell Ross-Carb.	Not Signed 2/1966
2/2	2/1	John Turcotte Ross-Carb.	No L.U.# 5/1967
2/3	2/2	Donald Sykes Ross-St. Johns	980352
2/3	2/2	Michael Reif Ross-St. Johns	930515

Span		Landowner/use	Specific measures to be applied
To	From		
6/3	7/6	City of Portland	Control of Canary Grass by City of Portland
2/5	2/4	City of Vancouver	City Park-City to top 9 trees

2.4 Review any existing landowner agreements (e.g. tree/brush Permits or Agreements). List in table above any provisions that need to be followed and where they are located.
See handbook — **Landowner Agreements** for requirements.

I will be checking all four tree and brush agreements to determine it is the same property owners and send them letters of noncompliance if applicable.

2.5 List any known casual informal use of the right-of-way by non-owner publics. List any constraints or measure's to take due to the informal use.
See handbook — **Casual Informal Use of Right-of-way** for requirements.

None

2.6 List other potentially affected people, agencies, or tribes (that are not landowners/managers) that need to be notified or coordinated with. Describe method of notification and coordination.
See handbook — **Other Potentially Affected Publics** for requirements and suggestions.

In October of 2000, Olympia Region sent a letter to the Grande Ronde Tribe regarding our plans to cut vegetation on transmission right-of-ways and asking for their input. The tribe was contacted because this area is part of the ceded lands.

City of Portland a meeting was held on 5/17/01 with Lynn Barlow to discuss BPA's possible contributions toward the control of canary grass on the banks of Bybee and Smith Lake.

3. IDENTIFY NATURAL RESOURCES

See Handbook — **Natural Resources**

3.1 List any water resources (streams, rivers, lakes, wetlands) that may be impacted by vegetation control activities. For each water body describe the control methods and requirements or mitigation measures that will be used.

See Handbook — **Water Resources** for requirements for working near water resources including buffer zones.

Span		Waterbody	T&E?	Method	Herbicide	Application Technique	Buffer	Other
To	From							
1/6	1/5	Cold Creek	No	Selective cut	No	None	100	
2/1	1/7	Burnt Creek	Yes	Selective cut	No	None	100	
7/3	6/4	Smith/Bybee Lake	Yes	C,L&S	Yes	Stump treatment	100	Accord Herb to be used.

BONNEVILLE POWER ADMINISTRATION
RIGHT-OF WAY MAINTENANCE
VEGETATION CONTROL PRESCRIPTION

CONTRACTOR: _____

TASK ORDER NO.: _____

LINE NAME		ADNO	Right of Way Width	Percent Total
Ross-St. John #1 230Kv 1/1 to 7/6	Ref. Line	7174	125	
Ross-Rivergate#1 230Kv 1/1 to 7/6		7173	125	
Ross-Alcoa 115Kv #3&4 1/1 to 2/6		7167		
Ross-Carborundum 115Kv1/1 to 2/6	Ref. Line	7169		
Clark PUD #1/2 115Kv Sub to 1/1		7170		

TASK ORDER INFORMATION
DATE COMPLETED:
CONTRACTOR'S SIGNATURE
INSPECTOR'S SIGNATURE

GENERAL INSTRUCTIONS:

Cut, Lop and Scatter (C, L & S), Cut and Chip (C & C) or Cut and Stack (C & S) as indicated in the Control Prescription or as directed by the Field Inspector. Only cut Vine Maple , Willow, Cascara and Wild Filbert unless indicated below or directed by the Field Inspector to do so. The tops of low growing brush within 21, 23', 26' of a conductor at maximum sag must be cut for 115kV, 230kV and 500 kV line respectfully. Apply herbicide to freshly cut stumps within 15 minutes for best results. The first 100' from stream banks, no herbicide application, then 100 to 200' apply Accord. 200' from stream bank, Garlon 4 can be applied. Right-of-way roads that can provide for a pathway to the creek, 400 'from creek channel, then the herbicide application will need to be restricted.

LOCATION			(1)	(2)	(3)	C, L & S	# Trees	C & C	Off R/W	Cut #	CONTROL PRESCRIPTION	Cut AR	Cut Str
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	Cut	ACRES	AR Acres	of Str's	(REMARKS)	Feet	Site
1/1	0	468	125	468	1.3						Skip		
1/2	0	423	125	423	1.2						Skip		
1/3	0	300	125	300	0.9		1.00				C,L&S-Reclaim 1 tree Lt edge of R/W.		
1/3	300	877	125	577	1.7	1.70					*C,L&S-Keep debris off of Ellen Davis Trail.		
1/4	0	200	125	200	0.6	0.60				1.00	*C,L&S-Reclaim Lt edge of R/W, lop branches to 18' above the ground: Be aware of 2 separate distribution lines. 100'and 200'AH of str. C&C-1 DF tree Lt edge of R/W West of Cold Creek along street.		1/4
1/4	200	1182	125	982	2.8						Skip-Old Hwy. 99		

LOCATION			(1)	(2)	(3)	C, L & S	# Trees	C & C	Off R/W	Cut #	CONTROL PRESCRIPTION	Cut AR	Cut Str
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	Cut	ACRES	AR Acres	of Str's	(REMARKS)	Feet	Site
1/5	0	518	125	518	1.5		21.00			1.00	C,L&S-Reclaim Lt/Rt edge cut approx. 9 trees., West of creek, top approx. 10 Wild Cherries to 15' ht. Cut 2 tree Rt. edge within 100' BOL of str. 1/6. Keep debris out of Cold Creek Channel. Be aware of Distribution line BOL of 1/5.		1/5
TOTAL FOR PAGE 1					**10.0**	**2.30**	**22.00**	**0.00**	**0.00**	**2.00**			

*Note : Apply herbicide within 15 minutes for best results. Do not apply herbicide within 100 feet of a creek bank. 100 to 200 feet apply Accord herbicide only then apply Garlon 4 beyond 200 feet from the creek bank.

TOTAL					**10.0**	**2.3**	**22.0**	**0.0**	**0.0**	**2.0**			
1/6	0	518	125.0	518	1.5						Skip		
1/7	0	300	125.0	300	0.9		9.00				C&C-top 9 trees to a height of 35'. Keep debris out of creek channel.		
1/7	300	997	125.0	697	2.0	2.00					*C,L&S-Reclaim Rt. Edge of the R/W. No herb. W/in 100' of creek. Be aware of distribution line.		
2/1	0	1045	125.0	1045	3.0						Skip for now, several ornamental trees in the span in back yard settings.		
2/2	0	805	125.0	805	2.3						Skip for now, several ornamental trees in the span in back yard settings.		
2/3	0	812	275.0	812	5.1		4.00			2.00	C&C-top 4 ornamental trees, check with p/o first. Mulch str sites. Ross-2,4 and Carborundum joins corr.		2/3,2/4
2/4	0	774	275.0	774	4.9						8 trees in Park need to be topped, I will check with park managers.		
2/5	0	300	275.0	300	1.9	1.90				3.00	*C,L&S-		2/5,2/6, 2/6
2/5	300	375	275.0	75	0.5						RR Tracks-skip		
2/5	375	425	275.0	50	0.3			0.30			*C&C- between RR Tracks and NW Fruit Valley Rd. Be aware of distribution lines.		
2/5	425	498	275.0	73	0.5						Skip		
2/6	0	2	275.0	2	0.0						Skip- from 2/6 to 6/3.		
6/3	0	300	125.0	300	0.9						Skip		
6/3	300	1016	125.0	716	2.1	2.10					C,L&S-Use Accord herbicide(Smith/Bybeee Lake area); Reclaim Lt/Rt edge of the R/W. No herbicide application within 100' of any water bodies or wetlands.		
6/4	0	400	125.0	400	1.1	1.10				1.00	C,L&S-Use Accord herbicide(Smith/Bybeee Lake area); Reclaim Lt/Rt edge of the R/W. No herbicide application within 100' of any water bodies or wetlands.		6/4
6/4	400	1252	125.0	852	2.4						Skip-edge of lake		
6/5	0	400	125.0	400	1.1						Skip-edge of lake		
6/5	400	800	125.0	400	1.1	1.10					C,L&S		
6/5	800	1318	125.0	518	1.5						Skip		
6/6	0	850	125.0	850	2.4						Skip		

LOCATION			(1)	(2)	(3)	C, L & S	# Trees	C & C	Off R/W	Cut #	CONTROL PRESCRIPTION	Cut AR	Cut Str
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	Cut	ACRES	AR Acres	of Str's	(REMARKS)	Feet	Site
TOTAL	**FOR**	**PAGE**	**1 & 2**		**45.5**	**10.50**	**35.00**	**0.30**	**0.00**	**8.00**			
TOTAL					**45.5**	**10.5**	**35.0**	**0.3**	**0.0**	**8.0**			
6/6	850	1002	125.0	152	0.4	0.40					C,L&S		
7/1	0	1259	125.0	1259	3.6			2.30			Mow Canary Grass 800' AHOL of str. 7/1.		
7/2	0	1185	125	1185	3.4	3.40				1.00	C,L&S		7/2
7/3	0	1185	125.0	1185	3.4						Skip		
7/4	0	1106	125.0	1106	3.2						Skip		
7/5	0	444	125.0	444	1.3						Skip		
				0	0.0						Ross-River gate No. 1		
7/6	0	150	125.0	150	0.4						Skip		
7/6	150	398	125.0	248	0.7	0.70					C,L&S-Also cut willows greater than 20' ht., no herbicide application-T&E species.		
8/1	0	846	125.0	846	2.4	2.40					C,L&S-Also cut willows greater than 20' ht. , no herbicide application.-T&E species		
				0	0.0						Ross-Alcoa # 2,4 and Carborundum transmission lines.		
1/1	0	616	215.0	616	3.0						Skip		
1/2	0	579	215.0	579	2.9						Skip		
1/3	0	665	215.0	665	3.3						Skip		
1/4	0	635	215.0	635	3.1						Skip		
1/5	0	575	215.0	575	2.8						Skip		
1/6	0	735	215.0	735	3.6						Skip		
1/7	0	1144	150.0	1144	3.9						Skip		
1/7	1144	1494	150.0	350	1.2	1.20	6.00				*C,L&S-Rt. Edge cut 2 unmarked DT's BOL of 2/1 and side trim 4 DF trees AH of Burnt Creek foot path.		
2/1	0	644	150.0	644	2.2			0.10			*C&C tall brush along fence approx. 100' AH of Str: Skip the rest of the span.		
TOTAL	**FOR**	**PAGE**	**1 to 3**		**90.5**	**18.60**	**41.00**	**2.70**	**0.00**	**9.00**			

Note: Mow Canary Grass as part of restoration of Bybee and Smith Lakes.

TOTAL					**90.5**	**18.6**	**41.0**	**2.7**	**0.0**	**9.0**			
2/2	0	631	150.0	631	2.2						3-4 trees were previously topped to 15' ht. under the Ross-Carborundum line, Check with P/O. 2 storage shed on the R/W.		
2/3	0	200	150.0	200	0.7						3 storage sheds on the R/W, under the Ross-Carborundum line;		
2/3	200	300	150	100	0.3			0.30			*C&C-Also mulch Blackberries within this control area.		
				0	0.0						Ross-Vancouver Shipyard		
1/4	0	443	125.0	443	1.3	1.00					*C,L&S-Reclaim draw. Cut under both lines that come together as a double circuit line. Fall trees toward the slope and avoid falling trees toward the bottom of the draw. Keep debris off of RR Tracks.		

LOCATION			(1)	(2)	(3)	C, L & S	# Trees	C & C	Off R/W	Cut #	CONTROL PRESCRIPTION	Cut AR	Cut Str
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	Cut	ACRES	AR Acres	of Str's	(REMARKS)	Feet	Site
											Corridor joins the Ross-St. John Corridor		
				0	0.0						Clark PUD #1/2		
Sub	1	580	175.0	579	2.3	0.40					*C,L&S -Cut 100' BOL str 1/1. Keep debris off of RR Tracks.		
				0	0.0						End of project		
TOTAL	**FOR**	**PAGE**	**1 to 4**		**97.3**	**20.00**	**41.00**	**3.00**	**0.00**	**9.00**			

3.2 If planning to use herbicides, list locations of any known irrigation source, wells, or springs (landowners maybe able to provide this info if requested).
See Handbook — **Herbicide Use Near Irrigation, Wells or Springs** for buffers and herbicide restrictions.

Span		Well/irrigation/or spring	Herbicide	Buffer	Other notes/measures
To	From				
		No known wells located on or near easement or provide by P/O's.	Herbicide not having a ground/surface water advisory	50'	

3.3 List below the areas that have Threatened or Endangered Plant or Animal Species and the name of the species, and any special measures that need to be taken due to their presence. Attach any BAs, T&E maps, or letters from US Fish and Wildlife.
See Handbook — **T&E Plant or Animal Species** for requirements and determining presence.

Span		T&E Species	Method/mitigation or avoidance measures
To	From		
1/7 4/5 6/4 7/1 7/2 7/5 7/6	2/1 6/1 6/6 7/2 7/3 7/6 8/1	Anadromous and resident fish are the T&E Species within the watershed. Painted Toutle	It is critical to maintain a 50-100 foot silt and shade buffer of willows, cascara, Vine Maple and Wild Filbert on both sides of the creek, lake, river bank and wetlands so as not to adversely affect fish habitat. Selectively cut only tall growing species that will threaten the transmission line. Topping trees becomes the last alternative when the above mentioned species are not present. No herbicide is applied within a 100 feet of creek bank. Accord is applied from 100 to 200 feet and Garlon 4 is then applied beyond 200 feet from any body of water. No herbicide application and leave willows less than 20 foot height on the R/W.

3.4 List any other measures to be taken for enhancing wildlife habitat or protecting species.
See Handbook — **Protecting Other Species** for requirements.

Span		Species	Measures
To	From		
		Nothing noted on the GIS	

3.5 List any visually sensitive areas and the measures to be taken at these areas.
See Handbook — **Visual Sensitive Areas** for requirements.

Span		Describe sensitivity	Method/mitigation measures
To	From		
		None	

3.6 List areas with cultural resources and the measures to be taken in those areas.
See Handbook – **Cultural Resources** for requirements.

Span		Describe sensitivity	Method/mitigation measures
To	From		
		None	

3.7 List areas with steep slopes or potential erosion areas and the measure and methods to be applied in those areas.
See Handbook – **Steep/Unstable Slopes** for requirements.

Span		Describe sensitivity	Method/mitigation measures
To	From		
1/6	1/5	Land Slide Area	**Topping Wild Cherries for silt and shade buffer for Cold Creek and soil stability near land slide area.**

3.8 List areas of spanned canyons and the type of cutting needed.
See Handbook – **Spanned Canyons** for requirements.

Span		Methods, cutting
To	From	
		None

4. DETERMINE VEGETATION CONTROL METHODS

See Handbook — **Methods**

The crews will cut hazardous brush and "C" trees with chain saws. A chipping machine will be utilized where it is noted.

4.1 List Methods that will be used in areas not previously addressed in steps above.
See Handbook — **Manual**, **Mechanical**, **Biological**, **Herbicides** for requirements for each of the methods.

Span		**Methods,** including herbicide active ingredient, trade name, application technique
To	**From**	
7/6	1/1	Manual-Cut, lop and scatter/cut & chip. The freshly cut stumps are stump treated by back pack sprayers with 25% Garlon 4 and 75% Forest Crop Oil within 200 feet of any body of water. Active ingrediants triclopr:3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester.
2/1 7/1	1/7 6/3	Spot application (stump treatment) of Accord. Glyphosate, N-(phosphonometryl)glycina, Isopropylamine salt is made between 100 to 200 feet of any body of water.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

5.1 Describe the debris disposal methods to be used and any special considerations.
See Handbook — **Debris disposal** for a checkbox list and requirements.

Debris Disposal:

Chip (Mechanical brush disposal unit cuts brush into chips 4 in. or less in diameter, and spread over ROW, piled on ROW, or trucked off site. Trunks too large for the chipper are limbed and the limbs chipped. Trunks are placed in rows along the edge of the right-of-way or scattered, as the situation requires.)

Lop and Scatter (Branches of a fallen tree are cut off (lopped) by ax or chainsaw, so the tree trunk lies flat on the ground. The trunks are occasionally cut in 1-to-2-m (4-to-8-ft.) lengths. The cut branches and trunks are then scattered on the ground, laid flat, and left to decompose.)

Mulch (Mulching is a debris treatment that falls between chipping and lop-and-scatter. The debris is cut into 1-to-2-ft. lengths, scattered on the right-of-way and left to decompose. This method is used when terrain and conditions do not allow the use of mechanical chipping equipment.)

5.2 List areas of reseeding or replanting (those areas not already described in steps 1, 2, or 3).
See Handbook — **Reseeding/replanting** for requirements.

Span		**Reason for Reseed/plant**	**Type of Seed or Plants**	**Native?**
To	**From**			
		NOT APPLICAPLE		

5.3 If not using native seed/plants, describe why.

5.4 Describe timing and any follow-up that will need to take place to ensure germination/success of seeding/planting.

Not Applicable

6. DETERMINE MONITORING NEEDS

See handbook — **Monitoring** for requirements.

6.1 Describe the follow-up/monitoring cycle that will be used to evaluate the effectiveness of the vegetation control methods used.

I will monitor the right-of-way corridor within a year to evaluate the effectiveness of the herbicide treatment on the target species Red Alder, Big Leaf Maple, Wild Cherry, Cotton Wood, etc. I will also evaluate the creek buffers to determine if the silt and shade buffers are effective in protecting the fish habitat.

6.2 Describe any follow-up or monitoring needed to determine if mitigation measures were effective.

Field checking and patrol..

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

See handbook — **Prepare Appropriate Environmental Documentation** for requirements. . Also prepare Supplement Analysis — **Supplement Analysis** — for signature.

7.1 Describe any potential project impacts or project work that are different than those disclosed in the Transmission System Vegetation Management Program EIS. Describe how those differences impact natural resources and if the differences are "substantial".

No difference

7.2 Is there a need for additional NEPA documentation (i.e. Forest Service requirement, Record of Decision, supplemental EIS)? If so, attach.

No